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TI - THIN-FILM MAGNETIC HEAD AND ITS MANUFACTURE
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AB - PURPOSE:To obtain the manufactureing method for a thin-film magnetic head, in which the simplification of a manufacturing process and shortening of a production time required for eliminating a difference in level are made possible, by obtaining a new means of eliminating the difference in level occurring between a lower magnetic pole and substrate surface.
- CONSTITUTION:A flat metal film10 of the same material as that of a conductor coil composed of Cu is formed on the required surface on a substrate other than a lower magnetic pole film-formed on the substrate so as to be equal to the lower magnetic pole in the height of layer; and the metal film is made to pass through an insulating layer 14 in the central part of the conductor coil 15 on the insulating layer 14, connected with the flat conductor film 10 and connected with a lead part 16 in the outer peripheral part of the flat conductor film 10. In the manufacture of the thin-film magnetic head, thus, the metal film of the same material as that of the conductor coil can be formed by the same film-forming method as that of the conductor coil, a film thickness control with high accuracy is possible so that the effect of eliminating a difference in level is high, such failures as short-circuiting and breaking of the conductor coil can be prevented, the height of the whole element can be lowered because the head element can be used as the lead part of the conductor coil and there is effect of heat dissipation by the flat metal film.
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